


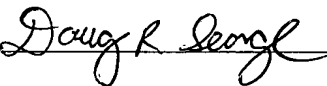



DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	
Title of Invention	LOW COST MULTI-BEAM, MULTI-BAND AND MULTI-DELIVERY ANTENNA SYSTEM FOR WIRELESS COMMUNICATIONS
<p>As the below named inventor(s), I/we declare that:</p> <p>The declaration is directed to:</p> <p><input checked="" type="checkbox"/> The attached application, or</p> <p><input type="checkbox"/> Application No. _____, filed on _____,</p> <p><input type="checkbox"/> as amended on _____ (if applicable).</p> <p>I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;</p> <p>I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;</p> <p>I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.</p> <p>All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.</p>	
<p>FULL NAME(S) OF INVENTORS:</p> <p>Inventor one: <u>Peter C. Song</u></p> <p>Signature: <u></u> Date: <u>12/11/2003</u> Citizen of: <u>Singapore</u></p> <p>Inventor two: <u>Ross D. Murch</u></p> <p>Signature: <u></u> Date: <u>12/11/2003</u> Citizen of: <u>New Zealand</u></p> <p>Inventor three: <u>Angus M. Chi Keung</u></p> <p>Signature: <u></u> Date: <u>12/11/2003</u> Citizen of: <u>Canada</u></p> <p>Inventor four: <u>Douglas R. George</u></p> <p>Signature: <u></u> Date: <u>12/11/2003</u> Citizen of: <u>Canada</u></p> <p>Inventor one: <u>Piu Bill Wong</u></p> <p>Signature: <u></u> Date: <u>12/11/2003</u> Citizen of: <u>China</u></p>	

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Peter C. Song, et al.

Application No./Patent No.: _____ Filed/Issue Date: _____

Entitled: LOW COST MULTI-BEAM, MULTI-BAND AND MULTI-DELIVERY ANTENNA SYSTEM FOR WIRELESS COMMUNICATIONSHong Kong Applied Science and Technology Research Institute Co., Ltd.
(Name of Assignee), a Limited Liability Company
(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.

The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached.

OR

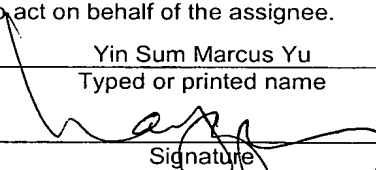
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____ , Frame _____ , or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

- [] Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Nov 13, 2003
Date(852) 3406 2818
Telephone NumberYin Sum Marcus Yu
Typed or printed name
SignatureAuthorized Signer for Assignee
Title

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Peter C. Song; Ross D. Murch; Angus M. Chi Keung; Douglas R. George; and Piu B. Wong (hereinafter referred to as Assignors), residing at 21st Floor, Room 4, Tak Lee Building, 270 Queens Road West, Hong Kong, HONG KONG, CHINA; EEE, HKUST, Clear Water Bay, Kowloon, HONG KONG, CHINA; Flat G, 24th Floor, Tower 1, Phase 1, Metro City, Tseung Kwan O, N.T., Hong Kong, HONG KONG, CHINA; 9/A 39 To Yuen St., Yau Yat Tsuen, Kowloon, HONG KONG, CHINA; and 17B Tower II, Regent on the Park, 9A Kennedy Road, Hong Kong, HONG KONG, CHINA, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in LOW COST, MULTI-BEAM, MULTI-BAND AND MULTI-DIVERSITY ANTENNA SYSTEMS AND METHODS FOR WIRELESS COMMUNICATIONS, set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, Hong Kong Applied Science and Technology Research Institute Co., Ltd., a Limited Liability Company organized under and pursuant to the laws of Hong Kong, China having its principal place of business at 18/F, Tower 6 Gateway, 9 Canton Road, Tsimshatsui, Kowloon, HONG KONG, CHINA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and

enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

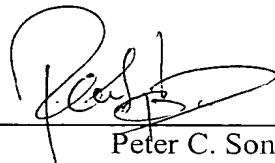
AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

FULBRIGHT & JAWORSKI L.L.P.

All practitioners at Customer Number 000029053

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

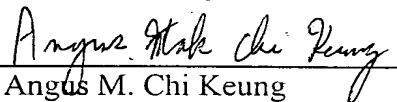
Date: 12/1/2003


Peter C. Song

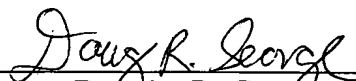
Date: 13/11/2003


Ross D. Murch


Date: 12/11/2003


Angus M. Chi Keung

Date: 12/11/2003


Douglas R. George

Date: 12/11/2003


Piu Bill Wong

POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	Application Number		Not Yet Assigned
	Filing Date		Concurrently Herewith
	First Named Inventor		Peter C. Song
	Title	LOW COST MULTI-BEAM, MULTI-BAND AND, etc.	
	Art Unit	N/A	
	Examiner Name	Not Yet Assigned	
Attorney Docket No.		64032/P010US/10309493	

I hereby appoint:

☒ Practitioners at Customer Number 000029053

OR

☐ Practitioner(s) named below:

Name	Registration Number	Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

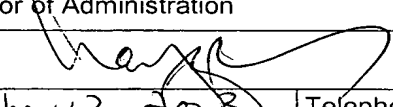
OR

<input type="checkbox"/> Firm or Individual Name	Jerry L. Mahurin FULBRIGHT & JAWORSKI L.L.P.				
Address	2200 Ross Avenue, Suite 2800				
City	Dallas	State	TX	Zip	75201-2784
Country	US	Telephone	(214) 855-8000	Fax	(214) 855-8200

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record			
Name	Hong Kong Applied Science and Technology Research Institute Co., Ltd., by Yin Sum Marcus Yu, Director of Administration		
Signature			
Date	November 13, 2003	Telephone	(852) 340-6282 Ext. 4
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.			
<input type="checkbox"/>	*Total of <u>1</u> forms are submitted.		